

I. Jacobs,
Pen Case

No. 111,840.

Patented Feb 14, 1871.

FIG I

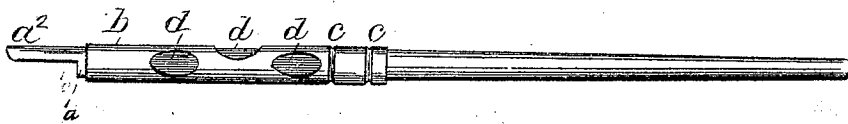


FIG II

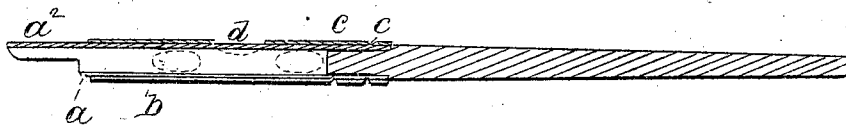


FIG III

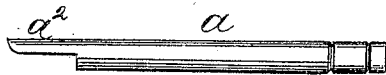


FIG IV

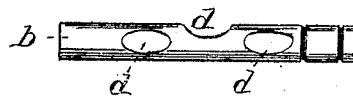


FIG V

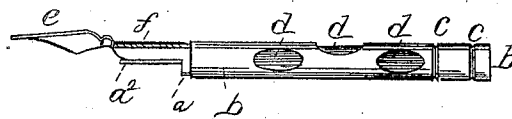
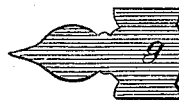


FIG VI



FIG VII



Inventor
Isaac Jacobs

Witnesses
George Shaw
Richard Herrett

United States Patent Office.

ISAAC JACOBS, OF NEW YORK, N. Y.

Letters Patent No. 111,846, dated February 14, 1871.

IMPROVEMENT IN PEN-HOLDERS.

The Schedule referred to in these Letters Patent and making part of the same.

To all to whom it may concern:

Be it known that I, ISAAC JACOBS, of the city of New York, am in possession of an invention for "Improvements in Pen-Holders and Pens;" and do hereby declare the nature of the said invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement thereof, that is to say:

My improvements in pen-holders have for their object the production of a voltaic or electric current in the fingers of a writer when holding the pen-holder, which voltaic or electric current gives great steadiness to the hand of a nervous person using the pen-holder.

In constructing pen-holders according to my invention, I make the metallic or barrel part of the pen-holders of two concentric tubes, the inner one being of zinc, and the outer one of copper, silver, or other metal or alloy which will form a voltaic couple with zinc.

The inner or zinc tube is longer than the outer or copper tube, the protruding part of the zinc tube being half cut away, and consequently semi-tubular, in figure.

The outer or copper tube has a series of elliptical or other-shaped perforations in it, of a size about equal to the area of the portion of the holder gripped by the fingers and thumb respectively, the said perforations being so disposed that in whatever position the pen-holder is held by the writer, either the first or second finger, or thumb, or more than one of them, being presented to one or more of the said perforations, come in contact with the zinc as well as the copper.

The moisture of the skin is sufficient, under the circumstance described, to set up a gentle voltaic or electric current, which gives steadiness to the hand of a nervous person using the pen-holder.

The contact of a metallic pen with the two metals of the pen-holder would interfere with their voltaic action, and hence it is necessary to avoid the connecting of the pen with the holder by the insertion of the heel part of the pen between the zinc and copper tubes of the holder; and my improvement in pens consists in forming the said heel part much wider than usual, and doubling or folding its edges so as to enable the said edges to clip the semicircular protruding part of the zinc tube, hereinbefore described, of the holder.

An ordinary quill-pen, with a portion of the quill left to form a barrel, may be used with a pen-holder constructed according to my invention.

Having explained the nature of my invention, I will proceed to describe, with reference to the accompanying drawing, the manner in which the same is to be performed.

Figure 1 represents in side elevation, and Figure 2, in longitudinal section, a pen-holder made according to my invention;

Figures 3 and 4 represent the two tubes of which the barrel part of the pen-holder is composed;

Figure 5 represents a pen made according to my invention, in combination with my improved pen-holder;

Figure 6 represents the pen separately; and

Figure 7 represents the blank from which the pen is made.

The same letters of reference indicate the same parts in each figure of the drawing.

The metallic or barrel part of the pen-holder is made of the two concentric tubes *a b*, the inner tube *a* being of zinc, and the outer tube *b* of copper or other metal or alloy which will form a voltaic couple with zinc.

The two tubes *a b* of the compound holder are secured together by the indentations at *c*, or they may be secured together in any other convenient way.

The inner zinc tube *a* is longer than the outer copper tube *b*, the protruding end, marked *a*² of the said zinc tube *a*, being of a semi-tubular figure.

In the outer copper tube *b* is a series of elliptical perforations, *d d*, by means of which perforations when the holder is gripped for writing either the first or second finger or thumb, or more than one of them, come in contact with the two metals of the compound pen-holder *a b*.

The pen *e* is provided with a semi-tubular heel, *f*, the said heel *f* being of such a size as will readily fit upon or clip the protruding semi-tubular part *a*² of the zinc tube *a*, as illustrated in fig. 5.

The semi-tubular heel *f* of the pen *e* is made from the blank, fig. 7, by doubling or bending the edges of the wide part *g* of the said blank into the semi-tubular figure, best seen in the end elevation of the pen, fig. 6.

By using a metallic pen of the construction described with my improved pen-holder, the contact of the said pen with the two metals of the pen-holder is avoided, and the voltaic action of the said pen-holder is consequently not interfered with.

When the pen-holder is held in writing, one or more of the fingers and thumb come in contact with the zinc and copper tubes *a b*, by means of the perforations *d d* in the outer copper tube *b*.

The moisture of the skin where such contact takes place causes a gentle voltaic or electric current to be set up, which gives steadiness to the hand of a nervous person using the pen-holder.

The positions of the two tubes *a b* of the pen-holder may be reversed, that is, the copper tube *b* may be the inner tube, and the zinc tube *a* the outer tube; but I prefer the arrangement of parts represented.

Having now described the nature of my invention, and the manner in which the same is to be performed, I wish it to be understood that I do not limit myself to the precise details herein described and illustrated, as the same may be varied without departing from the nature of my invention; but

What I claim as my invention is—

1. A metallic pen-holder, composed of two concentric tubes, one being of zinc, the other of copper or other metal or alloy which will form a voltaic couple with zinc, the outer tube being perforated to permit, when the pen-holder is gripped for writing, the fingers and thumb, or one or more of them, to

come in contact with the two metals of which the compound pen-holder is composed, substantially as and for the purposes shown and described.

2. The combination of the herein-described pen-holder and the pen, substantially in the manner specified, so that the pen shall be in contact with but one of the metals of which the holder is composed, substantially as and for the purposes set forth.

ISAAC JACOBS. [L. S.]

Witnesses:

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